

substitutions, additions and deletions thereof.

22. (Amended) An isolated and purified polypeptide comprising a DNA binding domain of an Ah receptor protein wherein said DNA binding domain comprises the amino acid sequence of SEQ ID NO: 38 and alterations, substitutions, additions and deletions thereof.

26. (Amended) An isolated and purified polypeptide comprising a DNA binding domain of an Ah receptor protein wherein said DNA binding domain comprises the amino acid sequence of SEQ ID NO: 39 and alterations, substitutions, additions and deletions thereof.

27. An isolated and purified polypeptide comprising a ligand binding domain of an Ah receptor protein, wherein said ligand binding domain comprises the amino acid sequence of SEQ ID NO: 40 and alterations, substitutions, additions and deletions thereof.

MARKED UP COPIES OF THE CLAIMS:

Please amend claims 21-22 and 26-27 as follows:

21. (Amended) An isolated and purified polypeptide comprising a DNA binding domain of an Ah receptor protein wherein said DNA binding domain comprises the amino acid sequence[:

RKRRKPVQKTVKPIPAEGIKSNPSKRHRDRLNTELDRLASLLPFPQDVINKLDKLSVL
RLSVSYLRAKSFFD] of SEQ ID NO: 37 and alternations, substitutions, additions
and deletions thereof.

22. (Amended) An isolated and purified polypeptide comprising a DNA
binding domain of an Ah receptor protein wherein said DNA binding domain
comprises the amino acid sequence[:

RKRRKPVQKTVKPIPAEGIKSNPSKRHRDRLNTELDRLASLLPFPQDVINKLDKLSVL
RLSVTYLRAKSFFD] of SEQ ID NO: 38 and alterations, substitutions, additions and
deletions thereof.

26. (Amended) An isolated and purified polypeptide comprising a DNA
binding domain of an Ah receptor protein wherein said DNA binding domain
comprises the amino acid sequence[:

EFQRQLHWALNPSQCTESGQGIEEATGLPQTVVCYNPDQIPPENSPLMERCFCICRL
RCLLDNSSGFLAMNFQGKLYLHGQKKKGKDGSLPPQLALFAIATPLQPPSILEIRT
KNFIFRTKHKLDFRPIGCDAGRIVLGYTEAELCTRGSGYOFIHAADMLYCAESHIR
MIKTGESGMIVFRLLTKNNRWTWVQSNARLLYKNGRP] of SEQ ID NO: 39 and
alterations, substitutions, additions and deletions thereof.

27. An isolated and purified polypeptide comprising a ligand binding domain
of an Ah receptor protein, wherein said ligand binding domain comprises the amino
acid sequence[:

FMERCFCRCRLRCLLDNSSGFLAMNFQGRKLYLHGQNKKKGKDGAALLPPQLALFAIAT